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MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 2, 2015/2016

MSA1013 – MULTIMEDIA AUTHORING AND SCRIPTING
(All sections / Groups)

1st MARCH 2016
2.30 p.m. – 4.30 p.m.
(2 Hours)

INSTRUCTIONS TO STUDENTS

1. This question paper consists of 4 pages including cover page with 7 questions only.
2. Attempt **SIX** out of **SEVEN** questions. All questions carry equal marks and the distribution of the marks for each question is given.
3. Please print all your answers in the answer booklet provided.

Question 1

- a. Write an *actionscript 3* to show and hide an object named “Circle” using buttons in Adobe Flash movie. Button_1 to show and Button_2 to hide. Below is some hint :

```
button_1.addEventListener(MouseEvent.CLICK, f_Hide);  
  
function f_Hide (event:MouseEvent):void  
{  
    // write suitable code here  
}
```

(2 marks)

- b. Explain the steps to convert or enable the flash *actionscript 3* in HTML5 canvas via Adobe Flash CC.

(2 marks)

- c. Discuss three (3) major problems with Adobe Flash.

(6 marks)

Question 2

A client requested you to develop a multimedia learning website for primary school standard 6 science subject. The material is coming from a textbook. The duration is two months starting from 1st March 2016. As the project leader you need to identify the roles of your team of 4 people including yourself, and ensure the project is delivered on time.

- a. List and explain the roles of the 4 team members identified as A,B,C,D. (4 marks)
- b. Draw a Gantt Chart for the project. Indicate A,B,C,D in your chart. (2 marks)
- c. Discuss four(4) advantages of using Adobe Captivate compared to Adobe Flash as the main development platform. (4 marks)

Continued ...

Question 3

- a. As a developer of online multimedia content, discuss two(2) strategies on how you can protect your content from piracy. (2 marks)
- b. Explain two(2) differences between server-side script and client-side script. Give examples. (2 marks)
- c. Write a JavaScript function **hello()** to pop up a window showing “Hello”. Write a proper code to trigger the function by a click of a button. (2 marks)
- d. Discuss two(2) factors in choosing programming language(s) to develop an online multimedia application. Give examples. (4 marks)

Question 4

- a. Draw a flowchart and write the JavaScript for the following:
Request user to enter password that allow 2 wrong attempts only. Third unsuccessful attempt will be blocked. The correct password is MultimediaScipting (3 marks)
- b. Explain what is responsive design? (1 mark)
- c. Discuss how the following factors influence your multimedia design?
 - i. Users' device screen resolution
 - ii. User's device memory and processor(2 marks)
- d. Explain what is black box testing and regression testing. (2 marks)
- e. Explain the differences between android app and iOS app market in terms of revenue and competition. (2 marks)

Question 5

- a. Write a for loop to generate the following sequence of numbers:
 - i. 1,4,9,16,25,36,49,64,81,100
 - ii. 100,95,90,85,80.....until 0(2 marks)
- b. Write a script to :
 - i. accept a number from user and test whether it is an odd or even number
 - ii. accept two numbers and display the result of the multiplication(2 marks)
- c. Explain 3-click rule and 2-second rule in multimedia content design. (2 marks)
- d. Discuss two(2) advantages of Waterfall Model and two(2) advantages of Agile Model in multimedia project development. (4 marks)

Continued ...

Question 6

- a. As a multimedia content author explain the :
- differences between designing for mouse interface and touch interface, focusing on hover and accuracy. (2 marks)
 - Fitts's Law and 80/20 Rule applied in User Experience(UX). (2 marks)
- b. A school is planning to create a multimedia learning content for their students. Discuss the main advantage and disadvantage of outsourcing the project. (2 marks)
- c. Discuss four(4) issues related to open source multimedia authoring software. (4 marks)

Question 7

- a. Trace the following for loop. Complete the table to trace the value and output:

```
for{ a=0 ; a<=10 ; a++ }
{
    document.write(i);
    a=a+2;
}
```

Iteration	a	test	body	update
1	0		0	

(2 marks)

- b. Write a script to get an input of student's mark ranging from 0 to 100 and display a suitable grade for the mark. Grade A for 80 and above, B for 50 and above but below 80 and F for below 50. Your code must be able to detect invalid inputs. It must loop until the user entered "x" or "X" to exit. Example of output :

Please enter mark or press X to exit : 85

The mark is 85 and the grade is A.

Please enter mark or press X to exit : -5

Invalid input

Please enter mark or press X to exit : x

The bold and underlined words are the input entered by the user. (4 marks)

- c. Generate a HTML table with 2 columns and 100 rows using a for loop. The colour of the rows is alternating blue and red. Each row is numbered from 1 to 100 as shown below. The word <blue> and <red> indicate the background colour and should not be shown in the web browser.

1 <blue>	<blue>
2 <red>	<red>
3 <blue>	<blue>
4 <red>	<red>

(4 marks)

END OF PAPER